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Bulletin of the

SUMMER SESSION



MOUNT HOLYOKE COLLEGE

FOUNDED BY MARY LYON IN 1837

Yale
Hamilton Lake College Library
2-17-43

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JUNE						
S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

JULY						
S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

CALENDAR FOR THE SUMMER SESSION IN 1943

June 8, Tuesday, 9:00 a. m. – 5:00 p. m. **Registration for all students.**

June 9, Wednesday, 8:00 a. m. **Regular class work begins.**

July 19-20, Monday-Tuesday. **Examinations.**

July 20, Tuesday. **First term ends.**

July 20, Tuesday, 9:00 a. m. – 5:00 p. m. **Registration for all students.**

July 21, Wednesday, 8:00 a. m. **Regular class work begins.**

August 30-31, Monday-Tuesday. **Examinations.**

August 31, Tuesday. **Second term ends.**

THE SUMMER SESSION

THE Summer Session at Mount Holyoke College, initiated in 1942, is designed to meet two urgent needs of our national emergency—acceleration in the liberal arts program and training in specific subjects. For the individual student these aims may either separate or go side by side. Since courses have been largely chosen from the offerings of the regular session, she may pursue her normal schedule at a swifter pace and thus graduate sooner than she would in the four-year system. She may, on the other hand, select specialized courses emphasized by government and industry as directly preparatory to war work. With either plan or with a combination of the two she will find herself ready more quickly than she otherwise would to take her place of responsibility as an educated citizen.

The College, with its campus of nearly five hundred acres, is in the village of South Hadley, Massachusetts. Although only twelve miles from Springfield and four miles from Holyoke, it may still be called a country college. North and west rise the hills of the Holyoke and the Tom ranges, the Connecticut river flows on the westward boundaries of the village, far around stretch the fertile fields of the Connecticut valley. The campus, beautifully landscaped with wide lawns and old shade trees, includes a wooded hill and two small lakes.

All facilities necessary for the pursuit of academic work, essential for well-being, and desirable for recreation are in use for the students of the Summer Session. Such classrooms and laboratories as are needed remain open; all the resources of the excellently equipped library are available. Students are housed in comfortable rooms of college residence halls, with attractive living-rooms at their disposal. The college physicians keep office hours, and the college infirmary provides nursing care for a small cost. In her leisure hours the student finds ample opportunity for recreation, either of her own devising or in association with others.

The extra-academic program of the Summer Session is flexible in the extreme; its variety depends on the initiative of

the individual student and of the group. Since Mount Holyoke has a well-developed Community government, most of its regulations and those of the administration are in general followed during the Summer Session, somewhat simplified to adapt them to summer conditions. The residence halls close, for example, at eleven every night except Saturday, when they are open until twelve midnight. Regular church and chapel services are not, however, held on the campus; the Congregational Church of South Hadley extends a cordial invitation to Summer Session students, and churches of other creeds are close at hand.

Social activities are informal, and the recreational program offers wide latitude of choice. The student may seek her relaxation in countless ways. She may explore the countryside on foot or by bicycle. She may take riding lessons, or, if she is a skilled horsewoman, engage a mount and investigate the bridle paths around South Hadley. She may swim or canoe in Upper Lake. She may play tennis on the college courts or, for a small fee, play golf at the eighteen-hole Orchards Golf Club. She may, as a member of a group, ask instruction of the Physical Education Department in some sport, and will find the department ready to organize and to teach. She may go on trips to the Outing Club Cabin on Mount Holyoke. She may join others interested in home gardening and, under expert supervision, learn by actual digging in the soil both the theory and practice of farm work.

The student of the Summer Session at Mount Holyoke does not forget that she is in South Hadley because her country is at war. She is reminded by having the chance to take certain extra-curricular courses not given in Mount Holyoke save under extraordinary conditions. But she is reminded in another and more significant way. The College, not surrendering but testifying to belief in the liberal arts curriculum, by opening its doors in the summer time offers her the opportunity to hasten the day when she will face her grave responsibilities as an educated citizen.

ADMISSION OF STUDENTS

The Summer Session is open to undergraduates of qualified institutions and to students who plan to enter college in 1943.

Teachers and graduate students may elect certain courses for graduate credit. Permission will be given, if necessary, for deferred entrance.

Twelve to fourteen semester hours of academic credit toward the one hundred twenty required for the Bachelor's degree may be earned during the twelve-week session, or six to seven hours during each six-week term.

Extra-curricular courses without academic credit are being arranged in First Aid, Home Nursing, Typewriting, and Stenography. Fees will be charged for the two latter courses. No student may attempt both of these secretarial courses in combination with a schedule of two academic courses.

REGISTRATION

Registration for the Summer Session will be held in the Registrar's Office in Mary Lyon Hall: for the first term from 9 to 5 on June 8; and for the second term 9 to 5 on July 20. A student entering from a university, normal school, or college other than Mount Holyoke should make a preliminary registration by filling out the application form between pages 20 and 21 of this bulletin. The two certificates are also a necessary part of the requirements for registration and should if possible be sent in with the application.

EXPENSES

Tuition for twelve weeks (four courses, two each term)	$150.00
Tuition per course for six weeks	40.00
Room and board for twelve weeks in a college hall . .	200.00
Room and board for six weeks in a college hall . . .	100.00
Laboratory fees per course	1.00 - 6.00
Typewriting for six weeks	25.00
Stenography for six weeks	15.00
Enrollment fee to be applied toward tuition	15.00

To ensure accommodations in a hall of residence preliminary registration should be completed by May 1.

All charges are due on the first day of each term. Laboratory, studio, and other fees or charges, payable at the beginning

of the term, will not be refunded after the first week in each term in case the work is discontinued. Bills will be rendered in advance, and payments should be made to the Comptroller's Office on the dates specified. In entering a student, parents or guardians are assumed to have agreed to these terms of payment.

Work-scholarships may be applied for by students regularly registered in the Summer Session for at least nine hours credit. There will be a number of places for table-waiting, for student assistantships in the library and in laboratories, and for bell duty. The remuneration for table-waiting at luncheon and dinner will be $50 for the twelve-week session. The usual rates will be in force for work paid for by the hour, with a beginning rate of thirty cents per hour for library, clerical, laboratory work, and for bell duty. A combination of these opportunities should enable a student to reduce her expenses by an amount of up to $75 for the summer. Applications for these work-scholarships should be made to the Secretary of the Committee on Scholarships on or before May 1.

Certain loan funds are available for those who cannot immediately meet the expense of tuition. Inquiries should be addressed to the Director of the Appointment Bureau.

LIVING ARRANGEMENTS

Living arrangements are in charge of the Office of the Dean of Residence. Undergraduate students who are not living in their own homes will ordinarily be required to live in the college residence halls unless special permission is given by that office. Requests for room reservations should be sent to the office or made on the enrollment slip with the preliminary registration. Assignments will be made in order of date of application for admission. Residence halls will be open for Summer Session students at 2 p.m., Monday, June 7, for the first term, and at 2 p.m., Tuesday, July 20, for the second term; the first regular meal served in each term will be dinner on the opening day.

Most of the rooms are single, although a few double rooms will be available. Rooms are furnished with bed, chest, table-desk, chairs, bookcase, and rug; the student will find that a desk-lamp of her own is desirable. She is expected to bring her

own towels, sheets, pillowcases, and blankets (one single blanket is, however, supplied); she may have washing done by the college laundry at reasonable rates. Each student is required to have a closet key, which may be secured from the Head of House upon a deposit of fifty cents. This deposit will be refunded by the Comptroller's Office when the key is returned.

The post office and telegraph address of the College is South Hadley, Massachusetts. The college telephone number is Holyoke 8211; offices and residence halls may be reached through that number.

Transportation to South Hadley from Holyoke is by bus or by taxicab. Busses marked South Hadley Center leave the City Hall in Holyoke daily on the hour and half-hour, and pass the railroad station a few minutes later.

Baggage should be addressed with the owner's name in full to Mount Holyoke College, South Hadley, Massachusetts (via Holyoke). The name of the residence hall is not necessary, since the expressman will have a directory giving the room assignments of all members of the Summer Session. Checks for trunks and baggage sent on railroad tickets should be left at the Comptroller's Office in the basement of Mary Lyon Hall at the time of registration; the baggage will be delivered promptly to the residence hall. Prepaid baggage sent by Railway Express will go directly to the hall.

Checks may be cashed at the Comptroller's Office.

COURSES OF INSTRUCTION

Each term course, unless otherwise noted, represents three semester hours of credit, except that a course described as continuing *throughout the session* will give six hours of credit when the work of the second term is successfully completed. Courses described as continuing *through the first and second terms* may be elected for either term.

Courses are graded as introductory, 100-199, intermediate, 200-299, and advanced, 300-399. Ordinarily intermediate courses have six hours of prerequisite or are open to sophomores, juniors, and seniors; and advanced courses have nine hours of prerequisite and are open to juniors, seniors, and graduate students.

For schedule of class hours, see page 37.

The College reserves the right to withdraw any course for which insufficient registration is received.

ART AND ARCHAEOLOGY

s101-102. INTRODUCTORY COURSES IN ART HISTORY. First term: ancient and medieval art. Second term: Renaissance and modern art. Designed to cultivate a critical appreciation of architecture, sculpture, and painting. Open to all students. First and second terms. ***Miss Williams, Miss Hayes.***

s103. MECHANICAL DRAWING. This course aims to develop skill in handling of drawing instruments, proficiency in lettering, and a working knowledge of orthographic projection and principles of three-view drawing, tracing, and blueprint reading. Open to all students. First term. ***Miss MacCarthy.***

s110. AMERICAN ARCHITECTURE AND FURNITURE. Architecture in America from the seventeenth century to the present, with a brief survey of American furniture. Open to all students. Second term, one hour. ***Miss Hayes.***

s216. MODERN PAINTING. Analysis of modern European and American painting by lectures and demonstrations of painting techniques. Open to sophomores, juniors, and seniors. First term. ***Miss Cogswell.***

s325. THEORY AND PRACTICE OF COLOR. Prerequisite, Courses 217-218 and a two- or three-hour course in the department. First term. ***Miss Cogswell.***

s330. GRAPHIC ARTS. Methods and masters of wood cut, engraving, etching, aquatint, mezzotint, wood engraving, and lithograph. Prerequisite, eight hours in the department. First term. *Miss Williams.*

s322. PAINTING IN SPAIN, FRANCE, AND ENGLAND. Prerequisite, eight hours in the department. Second term. *Miss Foss.*

ASTRONOMY

s105. DESCRIPTIVE ASTRONOMY. A rapid survey of the solar system, stars, nebulae, and galaxies. Laboratory work includes study of constellations, use of the telescope, solution of practical problems. Five lectures and six laboratory hours a week, partly in the evening. Extensive study may be completed by Course 202, 207, 208, or 209. Open to all students. First term. *Miss Farnsworth.*

s202. PRINCIPLES OF NAVIGATION. Survey of celestial sphere, co-ordinate systems, determination of time; study of instruments and maps; methods of air navigation with main emphasis on steering by the heavenly bodies. Course 101 or 205, and Physics 107 provide desirable background. Three laboratory periods a week. Prerequisite, trigonometry. Open to all students. Second term. *Miss Pillans.*

s208. DEVELOPMENT OF ASTRONOMY. The progress of astronomy shown in the work of great men, development of important ideas, peak moments, the history and work of modern observatories; supplemented by observational and laboratory work. Prerequisite, Course 102 or 205. Second term. By permission, this course may be elected for one or two hours. *Miss Farnsworth.*

s310. ELEMENTS OF ASTROPHYSICS. Study and interpretation of spectroscopic investigation of the planets, the Sun and other stars, and galactic nebulae. Introduction to theory of spectra. Prerequisite, three courses in the department; for students with a major in chemistry or physics, Course 102 or 205 may be accepted as prerequisite. First term. *Miss Farnsworth.*

CHEMISTRY

s101-102. GENERAL CHEMISTRY. These courses include a study of the more important non-metallic and metallic elements with particular emphasis on the fundamental principles of chemistry. They are designed to meet the needs of the general student as well as to give a basis for further work in chemistry. Five lectures and recitations, and six laboratory periods a

week. Open to students who have not presented the admission requirement in chemistry. Students who have had a satisfactory secondary school course in chemistry may begin with Course 102 given in the second term. First and second terms. ***Miss Carr.***

Given if elected by ten students.

s209. ORGANIC CHEMISTRY. The lectures include a study of typical reactions of compounds of the aliphatic series. The laboratory work is designed to train the student in the fundamental methods of organic preparations. A limited number of experiments for the detection of various groups or radicals is included. Five lectures and one recitation and eight laboratory periods a week. Prerequisite, Course 102 or 204. First term, four hours. ***Miss Sherrill.***

Given if elected by ten students.

s316. ADVANCED ANALYSIS. This course gives additional training in analytical technique with emphasis on modern instrumental methods. The laboratory work includes quantitative analysis of organic compounds by semimicro methods, training in the use of the chemical microscope together with further practice in the analysis of inorganic mixtures. Two hours of lecture or discussion, and fifteen laboratory periods a week. Prerequisite, Course 312. First or second term. ***Miss Pickett.***

Course limited to twelve students.

CLASSICAL LANGUAGES AND LITERATURES

GREEK

s101-102. ELEMENTARY GREEK. Grammar and the acquiring of a reading knowledge of Greek, based on Book I of Homer's *Iliad*. Open to all students. Throughout the session. ***Mrs. Cox, Miss Coulter.***

s217. HISTORY OF GREEK LITERATURE IN ENGLISH. Lectures, and reading of English translations of Greek masterpieces from Homer through Theocritus, with special emphasis upon Homer, the dramatists, and Plato. No knowledge of Greek is required. Open to sophomores, juniors, and seniors. First term. ***Mrs. Cox.***

LATIN

s101-102. ELEMENTARY LATIN. The essentials of Latin grammar; reading of simple stories and of selections from Latin prose authors. Open to all students. Throughout the session. ***Mrs. Cox, Miss Coulter.***

s105. VERGIL. *Aeneid.* Practice in reading at sight. Reading on Vergil's life and on the ideals of the Augustan Age. Prerequisite, the admission requirement of three units, or, by permission, the admission requirement of two units. First term. *Mrs. Cox.*

s210. ROMAN PRIVATE LIFE. Lectures; supplementary reading; selections from Latin authors, illustrating Roman life. Prerequisite, Courses 111-112. Second term. *Miss Coulter.*

ECONOMICS AND SOCIOLOGY

s101-102. INTRODUCTION TO ECONOMICS. The aim of these courses is to present the leading problems of contemporary economic life. The work includes a survey of corporate organization, money and banking, international trade and finance, public finance, agriculture, labor, and an outline of economic theory interpreted against the background of these subjects. Open to all students. Throughout the session. *Miss Comstock.*

s117. APPLIED SOCIOLOGY. A general introductory course treating of contemporary problems of primary social concern: causes of poverty; methods of caring for adult and child dependents and defectives, including social case work techniques; the relief program of the federal government and the Social Security Act; causes and prevention of crime; and the new programs for socialized medicine and state-subsidized housing. Open to sophomores, juniors, and seniors. First term. *Mr. Lobb.*

s213. LABOR RELATIONS IN WARTIME. An analysis of the American labor supply, state and federal labor legislation, and the implementing of trade agreements. Comparisons with British methods are included. Open to students who have completed Economics 101-102. First term. *Miss Hewes.*

s225. ECONOMICS OF WAR. The essential changes in economic life in preparation for, during, and after war are analyzed with special reference to the United States. The experience of European and Asiatic countries is included. Attention is given to the problems of increased production, priorities, rationing, bottle-necks, price controls, forced savings, standards of living, and labor disputes. Open to juniors and seniors who have completed Courses 101-102 and one other course in the department. Second term. *Miss Gillim.*

s304. ECONOMIC AND SOCIAL HISTORY OF MODERN EUROPE. Economic and social changes in the chief continental and northern countries in the nineteenth and twentieth centuries. Emphasis is given to changes in agricultural life, the development of industry of the modern type, the

growth of economic nationalism and wartime economic and social policies. Individual projects are included. Open to juniors and seniors who have completed nine hours in the department or in the Department of History. Second term. *Miss Comstock.*

s319. STATISTICS. A study of the application of statistical methods to social and economic data, with intensive work on a selected problem of economic or sociological interest. Laboratory work illustrates the methods studied and gives practice in the use of computing machines. Three class appointments and four periods of laboratory work a week. Open by permission to students who have completed Courses 101-102 and two other courses in the department. Second term. *Miss Gillim.*

s322. MARRIAGE AND THE FAMILY. A study of the customs and adjustment problems of courtship, marriage, and the family in the United States. Comparative material is presented from other societies and a brief introductory inquiry is made into the development of the family. Open to juniors and seniors who have completed Courses 114, 117, and one other course in the department. First term. *Mr. Lobb.*

ENGLISH LANGUAGE AND LITERATURE

I. ENGLISH LANGUAGE AND COMPOSITION

s210. REPORT WRITING, SUMMARIZING, AND ABSTRACTING; EDITING TECHNICAL MATERIAL. A student who has chosen her major subject will be able to practice technical writing in her own field. A course planned to prepare for service in government offices and in other positions demanding a similar use of English. Open to sophomores, juniors, and seniors. Second term. *Mrs. Matthias.*

s230 (or s330). EXPERIMENTAL WRITING. A study of those forms of writing in which the class is most interested and practice in using the forms studied. All papers will be read and discussed by the group. Because of the individual nature of the work this course may be counted as either intermediate or advanced, according to the preparation of the student and the level at which the work is done. For students especially interested in writing. First term, one, two, or three hours. *Miss Griffith.*

s261. STUDIES IN THE STRUCTURE OF THE NOVEL. Analysis and discussion of the work of a few novelists chosen to illustrate certain tendencies in subject matter and technique. For the summer of 1943: John Dos Passos, James Joyce, Thomas Mann, Sigrid Undset. Students should secure copies

of *U.S.A.*, *Portrait of the Artist as a Young Man*, *The Magic Mountain*, and *Kristin Lavrandsdatter*. First term. *Miss Griffith.*

s301. HISTORY OF THE ENGLISH LANGUAGE. An introduction to the study of language by an examination of the history of sound-change, grammatical forms and their use, growth of the vocabulary, and the problems of meaning in English. Historical survey of the relations of language and poetry, leading to an examination of modern English speech in sub-standard, standard, and literary usage. Second term. *Mr. McGee.*

s345. PLAYWRITING. A study of dramatic technique from the point of view of the playwright. Readings, exercises, and practice in writing the one-act play. Open to students who have completed nine hours in the department. First term. *Mr. Peery.*

II. ENGLISH AND AMERICAN LITERATURE

s103-104. HISTORICAL OUTLINE OF ENGLISH LITERATURE. English literature from *Beowulf* to 1798. Reading of representative works, lectures with and without illustrations, and class discussion. Open to all students. First and second terms.

s109. ENGLISH AND SCOTTISH POPULAR BALLADS. A study of the origin, themes, and structure of the popular ballad as a widespread form of folk-literature. Survivals of the traditional ballad in America. Influence of the folk ballad on the ballad of art. Open to all students. Second term, one hour. *Miss Mill.*

s201. CHAUCER. *The Canterbury Tales* as a mirror of Chaucer's world and art. Open to sophomores, juniors, and seniors. First term. *Miss D'Evelyn.*

s220. VICTORIAN POETRY. Evolutionary thinking and religious doubt. Social criticism. The new aestheticism as a protest against modern industrialism. Robert Browning, Elizabeth Barrett Browning, Tennyson, Arnold, Dante, Gabriel Rossetti. Christina Rossetti, Morris, Swinburne. Open to sophomores, juniors, and seniors. Second term. *Miss Mill.*

s223. AMERICAN LITERATURE. Survey of American literature to 1848. The Mathers, Franklin, Edwards, the Connecticut Wits, Freneau, Bryant, Poe, Cooper, Brown, Irving. Open to sophomores, juniors, and seniors. First term. *Mr. Burgevin.*

s317. THE NINETEENTH CENTURY NOVEL. A study of realism, with emphasis on changing social conditions, and of romantic tendencies in nineteenth century fiction. The following novels will be read: Jane Austen, *Persuasion;*

MOUNT HOLYOKE COLLEGE SUMMER SESSION

1943

APPLICATION FOR ADMISSION

(To be returned to the Registrar, Mount Holyoke College, South Hadley, Massachusetts)

Name in full

Address

I wish to apply for admission

for both terms (June 9—September 1)
for the first term only (June 9—July 20)
for the second term only (July 21—September 1)

I { wish / do not wish } a room in a dormitory. Single..... Double.....

If double, please state roommate preferred.

.....

I wish to take the following courses:

First term	*Second term*
.....	
.....	

I wish to take the following extra-curricular defense courses without college credit:

.....	

My high school, college or normal school training has been as follows: (Please give dates of attendance and degrees, with dates received.)

.....

.....

CERTIFICATE OF GOOD STANDING

(If you are at present a member of the student body of a university, normal school, or college other than Mount Holyoke, please ask one of the officials of the institution to sign this statement. Send it, with your application and the health certificate below, to the Registrar, Mount Holyoke College, South Hadley, Massachusetts.)

This is to certify that

is a student in good standing at

in her year. She will be readmitted in September.

(Signed)

.....

Dean or Registrar

Date

HEALTH CERTIFICATE

(This statement, signed by a physician, is a necessary part of registration. No application for admission will be accepted until such a statement has been received. Send it with your application to the Registrar, Mount Holyoke College, South Hadley, Massachusetts.)

This is to certify that in my opinion

..... is in good health and able to undertake summer school work.

(Signed)

.....

Date

Scott, *The Heart of Midlothian;* Dickens, *Great Expectations;* Thackeray, *Vanity Fair;* Charlotte Brontë, *Jane Eyre;* Emily Brontë, *Wuthering Heights;* Trollope, *Barchester Towers;* Elizabeth Gaskell, *Cranford;* George Eliot, *The Mill on the Floss;* Meredith, *The Egoist.* Students who elect this course are requested to read *Persuasion* in advance. Open to juniors and seniors who have completed nine hours in Division II. First term. *Miss Lynch.*

s318. THE MODERN ENGLISH NOVEL. A study of phases in the development of the British novel from Thomas Hardy to Virginia Woolf. The following books will be read: Hardy, *The Return of the Native;* Butler, *The Way of All Flesh;* James, *The Portrait of a Lady;* Moore, *Esther Waters;* Bennett, *The Old Wives' Tale;* Wells, *Tono-Bungay;* Galsworthy, *The Man of Property;* Conrad, *Victory;* Mrs. Woolf, *To the Lighthouse,* and one other. Open to juniors and seniors who have completed nine hours in Division II. Second term. *Mr. Wallis.*

s344. CONTEMPORARY AMERICAN DRAMA. 1920 to the present, O'Neill, Rice, Barry, Howard, Crothers, Kaufmann, Anderson, Odets, and others. Consideration of experiments in theatre management, as the Theatre Guild, the Federal Theatre, and of notable scene designers,—R. E. Jones, Lee Simonson, and others. Open to juniors and seniors who have completed nine hours in Division II. Second term. *Miss Foster.*

III. THEATRE ARTS

s247. STAGE SCENERY. Lectures, readings, and laboratory study of scenery design and construction. Emphasis will be placed on standard theatre practice. Open to all students. First term. *Miss Swift.*

s248. DIRECTING. Lectures, readings, and laboratory study of play direction. Participation in studio performances. Prerequisite, Courses 145-146 or six hours of speech. Second term. *Mrs. Wallis.*

s345. PLAYWRITING. First term. *Mr. Peery.*
This course is described under Division I.

FRENCH

s203-204. INTRODUCTION TO FRENCH LITERATURE. Reading of representative texts which illustrate the main aspects of French culture. Intensive study of selected passages according to the *lecture expliquée* method. Special work in pronunciation. Prerequisite, Course 202 or the admission require-

ment of three or four units. In general, students offering four units will be placed in special sections. First and second terms.

Freshmen electing these courses are required to continue them throughout the session.

s205. ROMANTICISM. Poetry, drama and novel. Social backgrounds, romantic tendencies, art for art's sake. The rise of the novel. Changes in dramatic and poetic technique. Special emphasis may be placed upon one or more *genres* according to individual needs. Prerequisite, six hours of intermediate work in French. First term.

s212. LITERATURE OF THE LATER NINETEENTH CENTURY. The reaction against romanticism; symbolist poetry, the naturalists and the dilettantes, the psychological novel. Mallarmé, Verlaine, Rimbaud, Flaubert, Zola, Renan, France, Bourget. Prerequisite, Course 205, 207, 209, or 211. Second term.

s255-256. TRANSLATION AND AUDITORY TRAINING. Free and literal translation from French texts: literary, journalistic, historical, and scientific. Sight translation and summarizing. Ear training in comprehension of spoken French by means of dictation, records, and radio. This is a defense course designed as basic training for translators, censors, interpreters, and radio-listeners. Prerequisite, six hours of intermediate work in French; open also, by permission, to specially qualified students. First and second terms. Course 256 may be elected separately by permission. First and second terms.

s361-362. STUDIES IN FRENCH LITERATURE. An intensive study of one or more subjects chosen according to the special needs of the class. Prerequisite, nine hours of French. First and second terms.

This course may also be used as a basis for individual work and independent projects.

GEOLOGY AND GEOGRAPHY

GEOLOGY

s101-102. GENERAL GEOLOGY. An introduction to the principles controlling the evolution of the earth and the development of its surface. Studies of the work of wind, streams, glaciers, earthquakes, and volcanoes, and a preliminary survey of rocks and minerals of economic interest. Field trips to the Green Mountains and the Hudson Valley. Five lectures and two afternoons of laboratory a week. Open to all students. First and second terms. *Mr. Balk.*

s203. MINERALOGY AND CRYSTALLOGRAPHY. An introductory study of the occurrence, composition, and means of identification of the more common minerals. A brief survey of the six crystal systems is included. If the course is elected for three hours, some of the identifications will be made by blowpipe tests, and some knowledge of elementary chemistry is desirable. Field trips. A minimum of one laboratory period a week is required for each hour of credit. Open to sophomores, juniors, and seniors. First term, two or three hours. *Mrs. Krieger.*

s206. HISTORICAL GEOLOGY. The distribution of land and sea in the past, as interpreted from the rocks and the remains of fossil life. The development of the continents and their changing climates. Field trips to the Hudson Valley. Five lectures and two afternoons of laboratory a week. Prerequisite, Courses 101-102. Second term. *Miss Lochman.*

s304. MINERAL RESOURCES OF THE WORLD. The geologic features of coal, petroleum, natural gas, metals, and non-metallics with emphasis on their occurrence, structure, origin, and distribution in the United States. Field trips to near-by mining districts and quarries. Open to juniors and seniors who have completed Courses 101-102 or 111-112, to majors in economics and sociology, and to others by permission. Five lectures a week. First term. *Mr. Balk.*

s311-312. INDIVIDUAL WORK IN OPTICAL MINERALOGY. First and second terms. *Mr. Balk.*

GEOGRAPHY

s111. SURVEY OF GEOGRAPHY. An introductory course presenting the natural environment in which man lives. Man's adjustment to this environment and the resources he uses are also presented. Five class appointments and five laboratory periods a week. Open to all students. First term. *Miss Shipman.*

s112. GEOGRAPHY OF THE UNITED STATES. A study of our country, its regions, and resources. This course offers an opportunity to study the natural conditions under which we live and work, and to learn how to observe the significant geographic elements when we travel. Five class appointments and five laboratory periods a week. Prerequisite, Course 111. Second term. *Miss Ladd.*

s114. CARTOGRAPHY. The construction and reading of maps. A study of map projection, symbols, scales, contours, landforms, and the many important uses to which maps are adapted. Training in making and interpreting

various types of maps and in the use of standard equipment for drafting and mechanical drawing. Theory and practice of making and using maps in the field may also be included. Open to all students; no prerequisites. First term, one, two, or three hours. Repeated second term.

s213. GEOGRAPHY OF EUROPE. A survey of the principal geographical regions of the continent in relation to human activities. Emphasis is laid on the physical elements of position, relief, climate, and resources that have made Europe the most important of the continents. Open to students who have completed Courses 111 and 112, and by permission to others who have completed six hours of correlated work. First term. *Miss Shipman.*

GERMAN

s101-102. BEGINNING COURSES. Grammar, reading, practice in speaking and writing. Open to all students. Throughout the session. *Mr. Sell, Miss Meyer.*

s201-202. INTERMEDIATE COURSES. Reading of selected prose and verse. Grammar, and practice in speaking and writing. Prerequisite, Courses 101-102 or the admission requirement of two units. First and second terms. *Mr. Sell, Miss Meyer.*

s217. PROBLEMS OF RE-EDUCATION IN POSTWAR GERMANY. A study of German literature and thought against their social backgrounds in modern times. These forces will be analyzed to determine the positive elements they contain that may serve as a basis for policies of postwar reconstruction. Lectures, discussions, and readings from such representative writers as Mann, Werfel, Rilke, George, Kafka, Nietzsche, Spengler, Freud. This course will be given in English and will be open to sophomores, juniors, and seniors. First term. *Miss Meyer, Mr. Sell, Mr. Maass.*

This course may not be used to fulfill the extensive requirement in Group I.

HISTORY

s107-108. INTRODUCTION TO EUROPEAN HISTORY. This course is a study of the more significant movements, social, political and cultural, in medieval and modern Europe, from the break-up of the Roman Empire to the present. Open to all students. First and second terms. *Mr. Cramer, Miss Tatlock.*

s205. MODERN EUROPE FROM THE CONGRESS OF VIENNA TO THE FRANCO-PRUSSIAN WAR. The conflict of eighteenth and nineteenth century ideas,

the development of liberalism and nationalism, the revolutions of 1848, and the unification of Italy and Germany treated in detail. Special attention is given to the origin of nineteenth century ideas and their influence upon both contemporary and later history. Open to sophomores, juniors, and seniors. First term.

s206. MODERN EUROPE FROM THE FRANCO-PRUSSIAN WAR TO THE PRESENT. The aim of this course is a thorough understanding of the origin of some present-day European problems. The political, social, and intellectual currents resulting from the industrialization of the continental countries, international diplomacy 1871-1914, the military and diplomatic aspects of the Great War, the Paris peace conference, and the problems of the new European states since 1918 are discussed. Open to sophomores, juniors, and seniors. Second term. *Miss Muncy.*

s212. ENGLISH HISTORY, 1485 TO THE PRESENT. A survey of modern England, designed as a background for further study of English history and of other related fields. Open to sophomores, juniors, and seniors. Second term. *Miss Adams.*

s313. MODERN GERMANY. An intensive study of modern Germany from 1878 to the present. Special emphasis will be given to the trends responsible for the fall of the Hohenzollern and the Weimar Republic, to the rise of national socialism, and to plans for a solution of German problems. Open to juniors and seniors who have completed nine hours in the department. Related courses in other departments may be substituted by permission. First term. *Mr. Cramer.*

s321. COLONIAL AMERICA. A discussion course on English colonization in America, with attention to early trading companies and their plantations, buccaneering activities in the islands, coming of the Puritans; New England theocracies, mercantilism and economic expansion, frontier versus transplanted English culture; imperial rivalry and English conquest of French colonial empire. Open to juniors and seniors who have completed nine hours in the department. Related courses in other departments may be substituted by permission. First term. *Miss Barnes.*

s336. INDEPENDENT STUDY. Topics on Modern England. Open by permission to juniors and seniors who have completed nine hours of history or in related courses in other departments. Second term. *Miss Adams.*

HYGIENE

s101. PERSONAL HYGIENE. Class discussion of the essential facts of the anatomy and physiology of the systems of the human body, with prac-

tical application of hygienic principles to individual needs. Frequent conferences with the instructors on individual problems of health and adjustment. Required of all students in either the freshman or the sophomore year, except those who, on the basis of preparation before entering college and with guidance in reading by the physicians, pass the examination in Hygiene 101, and students of physiology or zoology who, after reading under the direction of the physicians, pass the examination. First term, one hour. *The Resident Physicians.*

ITALIAN

s101-102. ELEMENTARY ITALIAN. Grammar, composition, and reading of modern authors. Emphasis on translation and the spoken language. Open to all students. Throughout the session. *Mr. Giamatti.*

s201-202. INTERMEDIATE ITALIAN. Reading of modern novels and plays. Review of grammar. Composition. Emphasis on conversation or, if desired, emphasis can be placed on translation and ear training. Prerequisite, Course 102 or the admission requirement of two units. First and second terms. *Mr. Giamatti.*

s320. DANTE AND HIS TIMES. This course is conducted in English. Open to juniors and seniors. Second term, one hour. *Mr. Giamatti.*

MATHEMATICS

s101. TRIGONOMETRY AND ANALYTICAL GEOMETRY. In this course the subject of trigonometry, which the student has already begun in her preparatory school work, is developed more fully, and enough work in analytical geometry is given to introduce the student to this form of geometric reasoning. Open to students who present the admission requirement of three units or of four units that do not include trigonometry. First term. *Miss Litzinger.*

s104. ANALYTIC GEOMETRY AND CALCULUS. This course offers a brief introduction to the methods of this important branch of mathematics. The analytical geometry of the first semester offers the greater part of the material upon which to test the power of the calculus. Prerequisite, Course 101 or 103. Second term. *Mr. Nilson.*

s203-204. INTERMEDIATE CALCULUS. In these courses special emphasis will be given to applications to other sciences. Prerequisite, Course 104 or its equivalent. First and second terms. *Miss Litzinger, Mr. Nilson.*

s306. ADVANCED CALCULUS. Continuation of Course s204. Prerequisite, Course 204. First term. *Mr. Zygmund.*

s341. DIFFERENTIAL EQUATIONS. Methods of solution of ordinary differential equations, especially those of orders one and two, with applications, and of partial differential equations of the first order. Prerequisite, Course 204. First term. *Mr. Zygmund.*

MUSIC

s101-102. HARMONY. The elements of notation, keys, scales, intervals, chords, and rhythm. Ear training and sight singing. Melody writing, elementary harmony, and simple problems in original composition. Open to all students. Students are requested to consult the instructor before electing these courses. First and second terms. *Mr. Verrall.*

s131-132. INTRODUCTION TO THE LITERATURE OF MUSIC. A course designed to cultivate a critical appreciation of the art of music through a study of its elements and the aesthetic principles which underlie its construction. Significant compositions of eighteenth, nineteenth, and twentieth century composers are studied. Open to all students. First and second terms. *Mr. Leedy.*

s301. INDEPENDENT STUDY. Qualified students who wish to do advanced work in theory or in the history of music may do so by permission of the department. First or second terms.

Credit for Course s101 will be withheld until the completion of Course s102. The equivalent of the latter will be offered in both the first and second semesters of 1943-1944.

Course s131 may be taken for three hours of credit irrespective of other work in the department, but it must be supplemented by Course s132 if offered as partial fulfillment of the extensive study requirements. The equivalent of s132 will be offered only in the second semester of 1943-1944.

PHILOSOPHY

s109a-232. STRUCTURE OF THINKING; PROBLEMS OF CONDUCT. The first half of this course will be devoted to a study of the underlying structures involved in effective thinking and critical analysis. Inductive and deductive procedures will be examined together with their implications for human knowledge. An investigation into the general characteristics of maturing thought will furnish the transition to the second half of the course, which will concentrate on the fundamental problems of conduct—of right

and wrong, justice and injustice—that confront human beings. The introduction to this discussion will be by way of the *Republic* of Plato. Open to sophomores, juniors, and seniors. First and second terms.

s312. AMERICAN POLITICAL PHILOSOPHY. This course will follow the development from Puritan New England through the Concord School to the idealism of Royce; give the philosophic background of American democracy; and trace the rise of pragmatism in Peirce, James, and Dewey. Prerequisite, six hours in the department or by permission. First term.

s313. CONTEMPORARY THEORY OF KNOWLEDGE. A study of present-day thought in its endeavor to understand the nature and sources of knowledge. Sensation, intuition, reason, the mind and its relation to world order, the external world, and theories of truth will be studied. Open to juniors and seniors who have completed six hours in the department. First term.

s314. METAPHYSICAL SYSTEMS. A study of great metaphysical systems, past and present: idealism, materialism, naturalism, transcendentalism, monism, dualism, pluralism. Prerequisite, six hours in the department. Second term.

s333. HISTORY OF POLITICAL PHILOSOPHY. This course is described under Political Science s333.

s334. RECENT AND CONTEMPORARY POLITICAL PHILOSOPHIES. This course is described under Political Science s334.

s342. INDEPENDENT STUDY. SEMINAR IN BERGSON. Open by permission of the department to qualified seniors. Second term.

PHYSICAL EDUCATION

An opportunity will be given for students desiring to do so to take one semester of the required work in physical education during the twelve-week session.

PHYSICS

s101-102. GENERAL EXPERIMENTAL PHYSICS. A survey of the fundamental principles of mechanics, sound, heat, light, magnetism, and electricity, with applications. This course may be taken either by those who have not completed a secondary school course in physics or by those who have;

the laboratory work will be adapted for the two groups. Five lectures and six to nine laboratory periods a week. First and second terms.

s201. LIGHT, MAGNETISM, AND ELECTRICITY. A second-year course covering further topics in optics and electricity and magnetism. Five class periods and six to nine laboratory periods a week. First term.

s303. RADIO COMMUNICATION AND TELEVISION. An introduction to radio tube principles and technique, including the fundamental principles of vacuum tube circuits and their application. Special attention will be given to the needs of the present emergency. Five class periods and six to nine laboratory periods a week. Second term.

PHYSIOLOGY

s101-102. ELEMENTARY PHYSIOLOGY. These courses aim both to accustom the student to scientific observation and thinking and to furnish a basis for meeting successfully the varying physiological needs of daily life. First term: anatomy and cell structure, digestion, nutrition, reproduction and blood. Second term: circulation, respiration, excretion, internal secretions, muscle and nerve, reproduction. Five lectures and six laboratory periods a week. Open to all students. First and second terms. *Miss Haywood, Mrs. Franseen.*

Given if elected by five students.

s305. PHYSIOLOGY OF THE NERVOUS SYSTEM. This course includes a study of the origin, plan, and mode of operation of the nervous system. Recent developments in our knowledge of the phenomena shown by nerve cells and fibers are discussed. Certain problems relative to sense organs may be included. Five lectures and six laboratory periods a week. Prerequisite, Courses 101-102 or 301-302, or their equivalent, and one course in psychology. Second term. *Mrs. Franseen.*

Given if elected by five students.

s307. APPLIED PHYSIOLOGY. The physiology of the human body in response to varied environmental conditions, with special emphasis on those encountered in the present war and in industry. Adjustments to variations in temperature, humidity, and barometric pressure; physiological maintenance in the tropics and at high altitudes. Selected topics which illustrate significant physiological principles, including those involved in aviation, carbon monoxide poisoning, lead poisoning, and industrial fatigue. A read-

ing course, with an occasional laboratory appointment. Prerequisite, Course 206, or four hours of Course 302. First term. *Miss Haywood.*

This course may not be counted toward the physiology major.

Given if elected by five students.

PLANT SCIENCE

s106. LOCAL FLORA. A study of flowering plants and ferns in the laboratory and field. This course gives a basis for the study of the flora of any region by making the student familiar with the principal families of flowering plants and ferns, and by a study of the principles and systems of classification. Three lectures and fifteen laboratory periods a week. Open to all students. First or second term, three or four hours. *Miss Reed.*

s307. BACTERIOLOGY. A course designed to give a fundamental knowledge of bacteria and certain other microörganisms, and to teach general bacteriological technique. The effect of various agents and conditions upon bacteriological growth. Isolation and classification of specific organisms. Three lectures and thirteen laboratory periods a week. Prerequisite, Course 102, or Zoology 102, or two courses in physiology, and Chemistry 101 or the admission requirement in chemistry. Open to juniors and seniors. First term. *Miss Eltinge.*

POLITICAL SCIENCE

s131-132. CONTEMPORARY POLITICAL INSTITUTIONS IN THE UNITED STATES, EUROPE AND THE BRITISH COMMONWEALTH OF NATIONS, LATIN AMERICA, AND THE FAR EAST. In the first term the national government and politics of the United States are studied, with emphasis on the increasing activity of the central government and its effect on the individual; the changing relation of the president and the congress; the role of the judiciary, and other current problems of American democracy. In the second term emphasis is put upon the government and politics of Great Britain and other units of the British Commonwealth of Nations. Existing political systems on the continent of Europe including Soviet Russia, in the Latin American countries, and in the Far East including China and Japan are studied. Open to all students. First and second terms. *Miss Ellis.*

s246. THE POLITICS OF WAR AND WARTIME CONTROLS. A study of the governmental organization of the United States in war; the role of the army and the navy and problems of political strategy; conscription; problems of morale and propaganda; civilian defense; increased government control in war; the role of the states and state guards; freedom of speech, press,

and religion; aliens and refugees. Developments in other countries are examined. Open to sophomores, juniors, and seniors who have not had Course 348 in 1941-1942. Second term.

s247. INTERNATIONAL RELATIONS. The problem of war and peace in the contemporary world, with especial emphasis on postwar political reconstruction. The experience of the League of Nations and the Permanent Court of International Justice as a guide to the future, and the relation of the United States to the problem of war and peace and of world reorganization are emphasized. Open to sophomores, juniors, and seniors who have had six hours of political science, history, or economics. First term. ***Miss Ellis.***

s248. PUBLIC PERSONNEL ADMINISTRATION AND MANAGEMENT. The personnel systems of the federal, state, and local governments in the United States, including a study of such subjects as the employment process, training, promotion, classification of positions, compensation, retirement, unionism, public relations. Open to sophomores, juniors, and seniors who have not had Course 346. Second term.

s333. HISTORY OF POLITICAL PHILOSOPHY. A study of the theories of state, government, and law as enunciated by leading writers from ancient to modern times, and their significance in the present world. The work consists of the reading and critical discussion of original texts in the light of contemporary political situations and problems. Open to juniors and seniors who have completed nine hours in political science or philosophy, or nine hours distributed between political science and philosophy. Related courses in other departments may be substituted by permission. First term. ***Miss Ellis.***

This course is entered also as Philosophy s333.

s334. RECENT AND CONTEMPORARY POLITICAL PHILOSOPHIES. A study of recent and contemporary writers whose political philosophies shed light on the problems of the modern state. Emphasis is placed on those systems more especially identified with the ideological issues of the present war—liberal democracy, collectivism, fascism, dictatorship, and the newer democratic formula—and on institutions and techniques characteristic of those systems. The doctrines of Bentham, Mill, Hegel, Marx, Sorel, Spengler, Lerner, Laski, and Hitler, among others, are read and discussed critically. Open to juniors and seniors who have completed nine hours of political science or philosophy, or nine hours distributed between political science and philosophy. Related courses in other departments may be substituted by permission. Second term. ***Miss Ellis.***

This course is entered also as Philosophy s334.

PSYCHOLOGY AND EDUCATION

PSYCHOLOGY

s101-102. GENERAL PSYCHOLOGY. These courses are designed to acquaint students with the various fields of psychological work, and to provide a basis for the scientific study and understanding of human behavior. Open to all students. First and second terms. *Mr. Reese.*

s201. PSYCHOLOGY OF CHILDHOOD. An elementary course dealing with the growth and development of children through the preschool years. Prerequisite, Course 102 or 105. First term. *Miss Hanfmann.*

s203. EDUCATIONAL PSYCHOLOGY. This course deals with the nature of the learning process and the influence upon it of original nature, heredity and environment, individual differences, social and emotional maladjustments. Prerequisite, Course 102 or 105. Open to sophomores, juniors, and seniors. First term. *Mr. Reese.*

s206. SOCIAL PSYCHOLOGY. This course examines the cultural determinants of behavior and the effects of the social environment on the individual. Data derived from anthropology, sociology, and experimental social psychology will be employed to study the derivation of social motives and the process of individual socialization. Open to students who have completed Course 102 or 105, or by permission to juniors and seniors. Second term. *Mr. Reese.*

s307. SYSTEMS OF PSYCHOLOGY. A critical study of the principal systems of psychology exerting an influence on contemporary psychological theory and research. Prerequisite or corequisite, Course 311. First term. *Miss Hanfmann.*

s321-322. CHILD DEVELOPMENT. This course deals with the physical, psychological, and social development of preschool children, their needs at various stages of development, and the means of providing for these needs. A preschool laboratory will be provided. Prerequisite, Course 201. Second term, six hours. *Miss McFarland.*

EDUCATION

s311-312. PRACTICE TEACHING. Practice teaching in schools in the vicinity may be arranged by consultation with the chairman of the department. Open by permission to seniors who have completed Courses 307 and 309. First term, one or two hours. *Mrs. Stephenson.*

RELIGION

s101-102. INTRODUCTION TO THE BIBLE. A study of the literary and religious aspects of the Old and New Testaments, and of their bearing on modern religious problems. Open to all students. First and second terms. *Mr. Williams.*

s221. MODERN RELIGIOUS MOVEMENTS. This course deals with the contemporary religious movements and organizations. The distinctive features of Catholicism, Protestantism, Judaism, and the contemporary cults will be developed. The historical background of these movements will receive brief treatment. Prerequisite, six hours in the department, or acceptable equivalent. First term. *Mr. Williams.*

s322. PRESENT TENDENCIES IN RELIGIOUS THOUGHT. The course studies the persistent problems of religion, such as the existence and nature of God, prayer, immortality, and the problem of evil, and examines the solutions proposed by various types of contemporary religious thought. Prerequisite, nine hours in the department, or acceptable equivalent. Second term. *Mr. Williams.*

SPANISH

s101-102. ELEMENTARY SPANISH. Grammar, reading, and practice in writing. In order to give adequate emphasis to the spoken language, small group meetings are arranged as a part of the regular course. Open to all students. Throughout the session. First term, *Miss Sedgwick.* Second term, *Miss Sánchez.*

s201-202. MODERN SPANISH LITERATURE. Reading of modern novels and plays. Oral and written reports. Review of grammar. Prose composition. Prerequisite, Course 102 or the admission requirement of two units. Special work is given to meet the needs of students who offer three units. First and second terms. *Miss Sedgwick, Miss Sánchez.*

s351-352. SPANISH PROSE COMPOSITION. Prerequisite, Course 202. Open to juniors and seniors, and to others by permission. First and second terms. *Miss Sedgwick, Miss Sánchez.*

PORTUGUESE

s101-102. ELEMENTARY PORTUGUESE. Grammar, composition, and reading. Emphasis on the spoken language. Open to sophomores, juniors, and seniors. Throughout the session. *Mr. Giamatti.*

SPEECH

s101. FIRST PRINCIPLES OF SPEECH. Similar in content to Course 107, but less comprehensive. Open to all students; one section will be open to foreign students; a separate section will be planned for students who wish to acquire stage diction and tone projection. First term, one hour. Repeated second term. *Miss Wells, Mrs. Mills.*

s107-108. SPEECH IMPROVEMENT. Based upon the principles of voice building and of applied phonetics. Training in articulation, in speech melody and rhythm; development of self-confidence; strengthening of weak voices; enrichment of quality. Practice in reading aloud and in making oral reports on topics of public interest. Open to freshmen and sophomores, and to juniors and seniors by permission. A separate section will be planned for the individual needs of foreign students. First and second terms. *Miss Wells, Mrs. Mills.*

By permission, Course 108 may be elected separately.

s215. AMERICAN PRONUNCIATION. A study of the English language as spoken in America. Consideration of assimilation, phonetic configuration, and acoustic values. Ear training. Comparison of American dialects and of speech standards in England and America. Phonetic evaluation of distinctive features of intonation, stress, quality, and rhythm. Development of auditory discrimination and of vocal and articulatory accuracy. Open to sophomores, juniors, and seniors. First term. *Miss Wells.*

s217. SPEAKING OF POETRY. Experience in both solo and group speaking of poetry. Investigation of the educational values of choral speaking. Special attention is given to the relation between meter and rhythm, and to the development of poetic appreciation, of accurate utterance, and of tonal beauty. Study and practice in methods and techniques used in schools, colleges, and community groups. Some practice in broadcasting. Open to students who have completed one hour of speech and three hours in the study of poetry in the Department of English Language and Literature, and by permission. Second term. *Mrs. Mills.*

s226. READING, SPEAKING, AND BROADCASTING. Practice in speaking and in reading from manuscript. Experience in radio programs with special attention to the exacting vocal requirements of broadcasting. Program analysis and consideration of radio as a force in the present world situation. Open to sophomores, juniors, and seniors who have completed three hours of speech. First term. *Miss Wells.*

s227. PUBLIC SPEAKING. A course designed for the development of ability in both formal and informal speaking. Experience in group discussion, especially the symposium and the panel. Some practice in after-dinner speaking and in forms of public address. Attention is given to selection and evaluation of subject matter, to composition, and to delivery. Open to sophomores, juniors, and seniors. Second term. *Mrs. Mills.*

s301-302. INDEPENDENT STUDY. Qualified students who wish to work on some special topic may do so by permission of the department. First and second terms. *Miss Wells, Mrs. Mills.*

ZOOLOGY

s101-102. ANIMAL BIOLOGY. These courses form an introduction to the principles which govern animal and human life. They aim to give a survey of the structures of the organism relative to digestion, respiration, excretion, and reproduction, and to such general subjects as heredity, development, and evolution. Lectures, discussions, and laboratory work are planned to introduce the major divisions of animal biology, anatomy, physiology, ecology, classification, and geographical distribution. Four lectures and six laboratory periods a week. Open to all students. First and second terms. *Miss Morgan.*

Given if elected by five students.

s201. COMPARATIVE ANATOMY. This course deals with the morphology of vertebrates from a comparative standpoint. The evolution of animals is traced from fishes to mammals with emphasis on the terrestrial adaptations. Particular attention is paid to those systems which are important in the history of mammals as shown in their embryology. Four lectures and nine laboratory periods a week. Prerequisite, Courses 101-102. First term. *Miss Smith.*

Given if elected by five students.

s202. VERTEBRATE EMBRYOLOGY. An introduction to the principles of embryology based upon a study of the chick and pig with constant reference to human development. The lectures will emphasize fundamental embryological processes and variations in development among the vertebrates, especially in nutrition, respiration, and excretion. Four lectures and six laboratory periods a week. Prerequisite, Courses 101-102. By permission this course may be taken concurrently with Course s102. Second term. *Miss Adams.*

Given if elected by five students.